

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.

Application Serial Number:

10/644,084A

Source:

1FW16

Date Processed by STIC:

12/28/06

ENTERED



IFW16

RAW SEQUENCE LISTING

DATE: 12/28/2006

PATENT APPLICATION: US/10/644,084A

TIME: 18:31:08

Input Set : A:\2144.0100000_E1-X0202-USsq.txt

Output Set: N:\CRF4\12282006\J644084A.raw

3 <110> APPLICANT: EISAI CO., LTD.
 5 <120> TITLE OF INVENTION: ADIP PROTEIN AND USE THEREOF
 7 <130> FILE REFERENCE: 2144.0100000
 9 <140> CURRENT APPLICATION NUMBER: US 10/644,084A
 10 <141> CURRENT FILING DATE: 2003-08-20
 12 <150> PRIOR APPLICATION NUMBER: JP 2002-284263
 13 <151> PRIOR FILING DATE: 2002-09-27
 15 <160> NUMBER OF SEQ ID NOS: 9
 17 <170> SOFTWARE: PatentIn version 3.3
 19 <210> SEQ ID NO: 1
 20 <211> LENGTH: 2692
 21 <212> TYPE: DNA
 22 <213> ORGANISM: Mus musculus
 25 <220> FEATURE:
 26 <221> NAME/KEY: CDS
 27 <222> LOCATION: (80)..(1927)
 28 <223> OTHER INFORMATION: /note="afadin-and alpha-actinin-binding protein"
 30 <400> SEQUENCE: 1

31 cgtaggagag tgacaggagc tgttgtaagc gtcgcagcac tgagccgcct cctcaggtat 60
 33 cctggctctg gaacttgct atg gga gat tgg atg act gtg aca gat cca gtt 112
 34 Met Gly Asp Trp Met Thr Val Thr Asp Pro Val
 35 1 5 10
 37 ctg tgt aca gaa aac aaa aat ctc tct caa tat acc tca gaa aca aag 160
 38 Leu Cys Thr Glu Asn Lys Asn Leu Ser Gln Tyr Thr Ser Glu Thr Lys
 39 15 20 25
 41 atg tct ccg tcc agt ttg tac tcc cag caa gtt ctg tgc tct tca gta 208
 42 Met Ser Pro Ser Ser Leu Tyr Ser Gln Gln Val Leu Cys Ser Ser Val
 43 30 35 40
 45 cct tta tcc aaa aac gtg cat ggt gtt ttc ggt gtc ttc tgc aca gga 256
 46 Pro Leu Ser Lys Asn Val His Gly Val Phe Gly Val Phe Cys Thr Gly
 47 45 50 55
 49 gag aac att gaa caa agt att tcc tat ctt gat cag gag ctg acc acc 304
 50 Glu Asn Ile Glu Gln Ser Ile Ser Tyr Leu Asp Gln Glu Leu Thr Thr
 51 60 65 70 75
 53 ttc ggg ttt cct tcc ttg tat gaa gaa tcc aaa agt aaa gag gca aag 352
 54 Phe Gly Phe Pro Ser Leu Tyr Glu Glu Ser Lys Ser Lys Glu Ala Lys
 55 80 85 90
 57 aga gaa tta aat ata gtc gct gtt ctg aac tgt atg aac gag ctg ctc 400
 58 Arg Glu Leu Asn Ile Val Ala Val Leu Asn Cys Met Asn Glu Leu Leu
 59 95 100 105
 61 gtg ctt cag cgg aag aac ctg ctg gcc cag gag agc gtg gag aca cag 448
 62 Val Leu Gln Arg Lys Asn Leu Leu Ala Gln Glu Ser Val Glu Thr Gln
 63 110 115 120

see p. 6

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65	aac	ttg	aag	ctg	ggc	agt	gac	atg	gac	cac	ctg	cag	agc	tgc	tac	gcc	496
66	Asn	Leu	Lys	Leu	Gly	Ser	Asp	Met	Asp	His	Leu	Gln	Ser	Cys	Tyr	Ala	
67		125					130					135					
69	aaa	ctt	aag	gag	cag	ttg	gaa	acg	tcc	agg	cgg	gag	atg	atc	ggg	ctt	544
70	Lys	Leu	Lys	Glu	Gln	Leu	Glu	Thr	Ser	Arg	Arg	Glu	Met	Ile	Gly	Leu	
71	140					145					150					155	
73	caa	gag	aga	gac	agg	cag	ctg	cag	tgc	aag	aac	agg	agt	ttg	cat	cag	592
74	Gln	Glu	Arg	Asp	Arg	Gln	Leu	Gln	Cys	Lys	Asn	Arg	Ser	Leu	His	Gln	
75					160						165					170	
77	ctc	ctg	aag	aat	gag	aaa	gat	gag	gta	caa	aaa	tta	caa	aat	atc	ata	640
78	Leu	Leu	Lys	Asn	Glu	Lys	Asp	Glu	Val	Gln	Lys	Leu	Gln	Asn	Ile	Ile	
79			175						180					185			
81	gcc	agc	cgg	gct	act	cag	tat	aat	cat	gat	gtg	aag	agg	aag	gag	cgt	688
82	Ala	Ser	Arg	Ala	Thr	Gln	Tyr	Asn	His	Asp	Val	Lys	Arg	Lys	Glu	Arg	
83			190					195					200				
85	gaa	tat	aat	aag	cta	aag	gag	cgc	ctg	cat	cag	ctc	gtt	atg	aac	aag	736
86	Glu	Tyr	Asn	Lys	Leu	Lys	Glu	Arg	Leu	His	Gln	Leu	Val	Met	Asn	Lys	
87		205					210					215					
89	aag	gat	aaa	aac	ata	gcc	atg	gat	gtt	tta	aat	tat	gtg	ggt	cga	gct	784
90	Lys	Asp	Lys	Asn	Ile	Ala	Met	Asp	Val	Leu	Asn	Tyr	Val	Gly	Arg	Ala	
91	220					225					230					235	
93	gat	ggc	aaa	cga	ggc	tca	tgg	agg	act	gac	aaa	aca	gaa	gcc	agg	aat	832
94	Asp	Gly	Lys	Arg	Gly	Ser	Trp	Arg	Thr	Asp	Lys	Thr	Glu	Ala	Arg	Asn	
95					240					245					250		
97	gaa	gat	gag	atg	tac	aaa	att	ctg	ttg	aat	gat	tat	gag	tac	cgc	cag	880
98	Glu	Asp	Glu	Met	Tyr	Lys	Ile	Leu	Leu	Asn	Asp	Tyr	Glu	Tyr	Arg	Gln	
99			255						260					265			
101	aag	cag	atc	ctg	atg	gag	aac	gcg	gag	ctg	aag	aag	gtc	ctc	cag	cag	928
102	Lys	Gln	Ile	Leu	Met	Glu	Asn	Ala	Glu	Leu	Lys	Lys	Val	Leu	Gln	Gln	
103			270					275					280				
105	atg	aag	aag	gag	atg	atc	tct	ctc	ctg	tct	cct	cag	aag	aag	ccc		976
106	Met	Lys	Lys	Glu	Met	Ile	Ser	Leu	Leu	Ser	Pro	Gln	Lys	Lys	Lys	Pro	
107		285					290					295					
109	agg	gaa	aga	gca	gag	gac	ggc	aca	ggc	act	gtt	gct	atc	tcc	gat	ata	1024
110	Arg	Glu	Arg	Ala	Glu	Asp	Gly	Thr	Gly	Thr	Val	Ala	Ile	Ser	Asp	Ile	
111	300					305					310					315	
113	gaa	gat	gac	tct	ggg	gaa	ctg	agc	aga	gac	agc	gtg	tgg	ggc	ctt	tcc	1072
114	Glu	Asp	Asp	Ser	Gly	Glu	Leu	Ser	Arg	Asp	Ser	Val	Trp	Gly	Leu	Ser	
115					320						325				330		
117	tgt	gac	act	gtg	aga	gag	cag	ctg	aca	aac	agc	atc	agg	aaa	cag	tgg	1120
118	Cys	Asp	Thr	Val	Arg	Glu	Gln	Leu	Thr	Asn	Ser	Ile	Arg	Lys	Gln	Trp	
119			335						340					345			
121	aga	att	ttg	aaa	agt	cat	gta	gaa	aaa	ctc	gat	aac	caa	gct	tcg	aag	1168
122	Arg	Ile	Leu	Lys	Ser	His	Val	Glu	Lys	Leu	Asp	Asn	Gln	Ala	Ser	Lys	
123			350					355					360				
125	gta	cac	tca	gag	ggc	ctt	aat	gag	gag	gac	gtc	atc	tca	cga	caa	gac	1216
126	Val	His	Ser	Glu	Gly	Leu	Asn	Glu	Glu	Asp	Val	Ile	Ser	Arg	Gln	Asp	
127		365					370					375					
129	cat	gag	caa	gag	act	gag	aaa	ctg	gag	ctg	gag	att	gag	cgg	tgt	aaa	1264

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130 His Glu Gln Glu Thr Glu Lys Leu Glu Leu Glu Ile Glu Arg Cys Lys
131 380          385          390          395
133 gag atg atc aag gct cag cag cag ctc tta cag cag cag ctg gcc acc      1312
134 Glu Met Ile Lys Ala Gln Gln Gln Leu Leu Gln Gln Gln Leu Ala Thr
135          400          405          410
137 acg tgt gat gat gac acc acc tca ctg ttg cga gac tgt tac ttg ctg      1360
138 Thr Cys Asp Asp Asp Thr Thr Ser Leu Leu Arg Asp Cys Tyr Leu Leu
139          415          420          425
141 gaa gaa aag gaa cgc ctt aaa gaa gag tgg acc ctt ttt aaa gag caa      1408
142 Glu Glu Lys Glu Arg Leu Lys Glu Glu Trp Thr Leu Phe Lys Glu Gln
143          430          435          440
145 aaa aag aat ttt gag aga gaa agg cga agc ttt aca gaa gct gcc att      1456
146 Lys Lys Asn Phe Glu Arg Glu Arg Arg Ser Phe Thr Glu Ala Ala Ile
147          445          450          455
149 cga ttg ggg ttg gag aga aag gcg ttt gaa gaa gag cga gcc agc tgg      1504
150 Arg Leu Gly Leu Glu Arg Lys Ala Phe Glu Glu Glu Arg Ala Ser Trp
151 460          465          470          475
153 gta aag cag cag ttt tta aac atg acg aac ttt gac cac cag aac tca      1552
154 Val Lys Gln Gln Phe Leu Asn Met Thr Asn Phe Asp His Gln Asn Ser
155          480          485          490
157 gaa aat gtg aaa ctt ttc agt gcc ttc tca gga agt tct gat cca gac      1600
158 Glu Asn Val Lys Leu Phe Ser Ala Phe Ser Gly Ser Ser Asp Pro Asp
159          495          500          505
161 aat ctt ata gtc cac tca cgg cca cgg caa aag aag cta cac agt gtg      1648
162 Asn Leu Ile Val His Ser Arg Pro Arg Gln Lys Lys Leu His Ser Val
163          510          515          520
165 gct aat ggg gtg cca gct tgc aca tca aaa ctg act aaa tct ctt cct      1696
166 Ala Asn Gly Val Pro Ala Cys Thr Ser Lys Leu Thr Lys Ser Leu Pro
167          525          530          535
169 gcc tca cct tct act tca gac ttt cgc cag aca cat tca tgt gtg tct      1744
170 Ala Ser Pro Ser Thr Ser Asp Phe Arg Gln Thr His Ser Cys Val Ser
171 540          545          550          555
173 gaa cac agt tcc atc agt gtg ctg aat ata act cct gaa gaa agt aaa      1792
174 Glu His Ser Ser Ile Ser Val Leu Asn Ile Thr Pro Glu Glu Ser Lys
175          560          565          570
177 cca agt gag gtt gca aga gaa agc acg gat cag aag tgg agc gtg cag      1840
178 Pro Ser Glu Val Ala Arg Glu Ser Thr Asp Gln Lys Trp Ser Val Gln
179          575          580          585
181 tcg agg ccc agc tcg cgg gag ggg tgc tac agc gga tgc tcc tcg gcc      1888
182 Ser Arg Pro Ser Ser Arg Glu Gly Cys Tyr Ser Gly Cys Ser Ser Ala
183          590          595          600
185 ttc agg agc gct cac ggg gac cga gat gac tta cct taa atgtgcgggc      1937
186 Phe Arg Ser Ala His Gly Asp Arg Asp Asp Leu Pro
187          605          610          615
189 tgcagtgtg ttcccagatg tgcgctagag gagttgacac aggggtgtagc ataaagtcag      1997
191 tcgtctaact taagatgctc agagttgttt gtttgactt cgctgtcttc ccccaaagag      2057
193 ctgaaatgct aagctactta aaaggatgca aagctttggg tgtgtgttag taacagaagc      2117
195 cctggctct gtgactgcag gaatgcatgg cgtttggatg gaaacagaag cgctggaatg      2177
197 attgcctcgc caggtaccga gaagagcact tttagggact ggttcctgta aacattaaat      2237

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199 attcgtccca agtgtggttg gcattggaag tgtagccttt acttgaatgt atactgtaga 2297
201 tttttaacaa agcaggttct atatttatta tgtttagtgt gattttggga ttacctcttt 2357
203 catatgtttt gtgtctgtac ataaatatac atgactatgt taagaggctt taagggtttaa 2417
205 aaacttcaca ccatgcttga gtatagcatt tcatgccaat taaaatgttt tcagtggcat 2477
207 ggtgtttaca gaggttagga ccactgccac atgacagtta agactttatt tttaagccat 2537
209 ctgggcaata aaaattcaaa gccccttcac aagctgagtt cagataacta gaactactaa 2597
211 cgttacattt ttgagatttt taaagcattg tattttattt tatatatgtg aatgttataa 2657
213 tttctaagag gaatattgat tatggagtaa tggggg 2692
216 <210> SEQ ID NO: 2
217 <211> LENGTH: 615
218 <212> TYPE: PRT
219 <213> ORGANISM: Mus musculus
221 <400> SEQUENCE: 2
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227 Lys Asn Leu Ser Gln Tyr Thr Ser Glu Thr Lys Met Ser Pro Ser Ser
228 20 25 30
231 Leu Tyr Ser Gln Gln Val Leu Cys Ser Ser Val Pro Leu Ser Lys Asn
232 35 40 45
235 Val His Gly Val Phe Gly Val Phe Cys Thr Gly Glu Asn Ile Glu Gln
236 50 55 60
239 Ser Ile Ser Tyr Leu Asp Gln Glu Leu Thr Thr Phe Gly Phe Pro Ser
240 65 70 75 80
243 Leu Tyr Glu Glu Ser Lys Ser Lys Glu Ala Lys Arg Glu Leu Asn Ile
244 85 90 95
247 Val Ala Val Leu Asn Cys Met Asn Glu Leu Leu Val Leu Gln Arg Lys
248 100 105 110
251 Asn Leu Leu Ala Gln Glu Ser Val Glu Thr Gln Asn Leu Lys Leu Gly
252 115 120 125
255 Ser Asp Met Asp His Leu Gln Ser Cys Tyr Ala Lys Leu Lys Glu Gln
256 130 135 140
259 Leu Glu Thr Ser Arg Arg Glu Met Ile Gly Leu Gln Glu Arg Asp Arg
260 145 150 155 160
263 Gln Leu Gln Cys Lys Asn Arg Ser Leu His Gln Leu Leu Lys Asn Glu
264 165 170 175
267 Lys Asp Glu Val Gln Lys Leu Gln Asn Ile Ile Ala Ser Arg Ala Thr
268 180 185 190
271 Gln Tyr Asn His Asp Val Lys Arg Lys Glu Arg Glu Tyr Asn Lys Leu
272 195 200 205
275 Lys Glu Arg Leu His Gln Leu Val Met Asn Lys Lys Asp Lys Asn Ile
276 210 215 220
279 Ala Met Asp Val Leu Asn Tyr Val Gly Arg Ala Asp Gly Lys Arg Gly
280 225 230 235 240
283 Ser Trp Arg Thr Asp Lys Thr Glu Ala Arg Asn Glu Asp Glu Met Tyr
284 245 250 255
287 Lys Ile Leu Leu Asn Asp Tyr Glu Tyr Arg Gln Lys Gln Ile Leu Met
288 260 265 270
291 Glu Asn Ala Glu Leu Lys Lys Val Leu Gln Gln Met Lys Lys Glu Met
292 275 280 285

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295 Ile Ser Leu Leu Ser Pro Gln Lys Lys Lys Pro Arg Glu Arg Ala Glu
296      290      295      300
299 Asp Gly Thr Gly Thr Val Ala Ile Ser Asp Ile Glu Asp Asp Ser Gly
300 305      310      315      320
303 Glu Leu Ser Arg Asp Ser Val Trp Gly Leu Ser Cys Asp Thr Val Arg
304      325      330      335
307 Glu Gln Leu Thr Asn Ser Ile Arg Lys Gln Trp Arg Ile Leu Lys Ser
308      340      345      350
311 His Val Glu Lys Leu Asp Asn Gln Ala Ser Lys Val His Ser Glu Gly
312      355      360      365
315 Leu Asn Glu Glu Asp Val Ile Ser Arg Gln Asp His Glu Gln Glu Thr
316      370      375      380
319 Glu Lys Leu Glu Leu Glu Ile Glu Arg Cys Lys Glu Met Ile Lys Ala
320 385      390      395      400
323 Gln Gln Gln Leu Leu Gln Gln Leu Ala Thr Thr Cys Asp Asp Asp
324      405      410      415
327 Thr Thr Ser Leu Leu Arg Asp Cys Tyr Leu Leu Glu Glu Lys Glu Arg
328      420      425      430
331 Leu Lys Glu Glu Trp Thr Leu Phe Lys Glu Gln Lys Lys Asn Phe Glu
332      435      440      445
335 Arg Glu Arg Arg Ser Phe Thr Glu Ala Ala Ile Arg Leu Gly Leu Glu
336      450      455      460
339 Arg Lys Ala Phe Glu Glu Glu Arg Ala Ser Trp Val Lys Gln Gln Phe
340 465      470      475      480
343 Leu Asn Met Thr Asn Phe Asp His Gln Asn Ser Glu Asn Val Lys Leu
344      485      490      495
347 Phe Ser Ala Phe Ser Gly Ser Ser Asp Pro Asp Asn Leu Ile Val His
348      500      505      510
351 Ser Arg Pro Arg Gln Lys Lys Leu His Ser Val Ala Asn Gly Val Pro
352      515      520      525
355 Ala Cys Thr Ser Lys Leu Thr Lys Ser Leu Pro Ala Ser Pro Ser Thr
356      530      535      540
359 Ser Asp Phe Arg Gln Thr His Ser Cys Val Ser Glu His Ser Ser Ile
360 545      550      555      560
363 Ser Val Leu Asn Ile Thr Pro Glu Glu Ser Lys Pro Ser Glu Val Ala
364      565      570      575
367 Arg Glu Ser Thr Asp Gln Lys Trp Ser Val Gln Ser Arg Pro Ser Ser
368      580      585      590
371 Arg Glu Gly Cys Tyr Ser Gly Cys Ser Ser Ala Phe Arg Ser Ala His
372      595      600      605
375 Gly Asp Arg Asp Asp Leu Pro
376      610      615
379 <210> SEQ ID NO: 3
380 <211> LENGTH: 3195
381 <212> TYPE: DNA
382 <213> ORGANISM: Rattus norvegicus
385 <220> FEATURE:
386 <221> NAME/KEY: CDS
387 <222> LOCATION: (79)..(1920)

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RAW SEQUENCE LISTING ERROR SUMMARY
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:3; N Pos. 2422

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:5,6,7,8

VERIFICATION SUMMARY

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L:569 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:2420